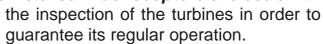
A project of Arbórea Intellbird

## *Aracnocóptero*, the drone that guards the wind turbines

Aracnocóptero is the drone with a shape reminiscent of a spider that allows the operation of the wind turbine blades to be monitored and guarantees rapid intervention in the event of failure.

Rinnovabili.it) – Employed by Google to fight the digital divide and from China to disperse pollution, the drones are back on the field ensuring fast and efficient supervision for <u>wind farms</u>. The new device presented in Barcelona last month has been christened *Aracnocóptero* and deals with





Developed by Arbórea Intellbird, a spinoff of the University of Salamanca which also includes Iberdrola, **the drone is equipped with high-resolution cameras and sensors** to control turbines in flight without the need for a pilot, thus reducing scan times and supervision costs.

With the shape that simulates a spider, the drone has an **autonomy of flight of 35 minutes** and is managed thanks to a joystick allowing immediate maintenance interventions in case of failure or erosion of the rotors, providing the operators on the ground with a detailed series of images recorded by the camera allowing easy identification of the necessary interventions.

Until now maintenance has required the installation of a crane and the presence of an operator capable of detecting damage and malfunctions, the presence of a remote-controlled drone as well as ensuring a faster detection of damage guarantees faster interventions and the reduction of the related costs with the possibility of moving the device simply by loading it into the luggage compartment of a common car. To carry out the project an investment of about half a million euros was required, provided by Iberdrola and the Center for Industrial Technological Development (CDTI), an agency of the Ministry of Economy and Competitiveness.